

# Exercises

16.63 [1HK] Prerequisites: [2BH]. In the case  $n = 1$ , suppose  $A$  is an open interval, show that if  $\varphi(x) = a$  and  $f'(x)\varphi'(x) < 0$  then the point  $x$  is a local minimum point for  $f$  bound to  $F_a$ .